OPTICAL GYRO

Publication number: JP2000230831
Publication date: 2000-08-22

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Classification:
- international: ***G01C19/68; H01S3/083;*** **G01C19/64; H01S3/081;** (IPC1-7): G01C19/68; H01S3/083
- european:
Application number: JP19990033277 19990210
Priority number(s): JP19990033277 19990210

Abstract of **JP2000230831**

PROBLEM TO BE SOLVED: To provide a ring laser gyro capable of operation at a low threshold value by detecting a rotating direction without applying mechanical fine vibration (dither), suppressing generation of lock-in phenomenon by restraining backward scattering in a light leading-out part, and further restraining loss in the light leading-out part. SOLUTION: This optical gyro is provided with a semiconductor ring laser 11 having a carrier injection means, a ring-shaped resonator, and a light output means outputting a part of clockwise light and a part of counterclockwise light, an optical element 13 converting the propagation direction of at least one out of the clockwise light 18 and the couterclockwise light 19 outputted from a ring laser, and a plurality of photo detecting elements 14, 15 arranged at a position where the clockwise light and the couterclockwise light overlap with each other.